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ABSTRACT OF THE DISCLOSURE

The invention provides an immunoglobulin molecule which binds *KDR* with an affinity comparable to human VEGF, and that neutralizes activation of *KDR*. Immunoglobulin molecules include monovalent single chain antibodies, multivalent 5 single chain antibodies, diabodies, triabodies, antibodies, humanized antibodies and chimerized antibodies. The invention further provides nucleic acid molecules that encode these immunoglobulin molecules. The invention also provides a method of making the immunoglobulin molecules mentioned above. The invention further provides a method of neutralizing the activation of *KDR*, a method of inhibiting 10 angiogenesis in a mammal and a method of inhibiting tumor growth in a mammal with such immunoglobulin molecules.